EWS (Urban-Housing) (24,200 houses with average cost of Rs. 28,000/- per unit with 90% funding as per the proposed revision in ceiling cost)	59.00
(b) LIG Housing (KSCB)	20.00
LIG Housing (APMC — for Hamals)	14.00
LIG Housing (Handloom Weavers)	2.00
LIG Housing (Beedi Workers)	2.00
(c) MIG Housing (KHB)	9.00
(d) MIG Housing (KHB)	25.00
(e) Other Schemes:	
(i) Site and services scheme in Hassan (1500 sites in 28 acres development)	1.75
(ii) Construction of 1500 EWS houses (Average rate Rs. 30000/- per unit with 90% funding)	4.00
(iii) Development of township project in Sathyamangala — (88 acres under area development)	63.60
(iv) Site and services schemes in Holenarasipura (1500 sites — EWS)	1.75
(v) Site and services schemes for LIG and MIG	2.50
(vi) Housing scheme at Gandasi and Hejjagondanshalli — CHS	4.50
TOTAL:	251.60
C *Mega City Project:*	
(a) Bangalore City Corporation	56.00
(b) Bangalore water Supply & Sewerage Board	16.00
(c) D. Devraj Urs Truck Terminal	3.50
TOTAL:	75.50

Potential of Non-Conventional Energy Sources in Rajasthan and Orissa

271. SHRI RAMDAS AGARWAL: Will the Minister of Non-Conventional Energy Sources be pleased to state:

(a) whether the potentials to develop Non-conventional energy sources in Rajasthan and Orissa have been ascertained;

(b) if so, the details thereof;

(c) the year-wise allocations made for development of various energy sources including solar energy during the current plan period; and

(d) what is the up-to-date position of Non-conventional energy sources in both the States?

THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (CAPT. JAI NARAIAN PRASAD NISHAD): (a) and (b) The estimated potential for the

installation of improved chulhas is 56 lakhs in the State of Rajasthan and 55 lakhs in the State of Orissa. Similarly, the estimated potential for installation of family type Bio-gas plants in the State of Orissa is 6,05,50 and in the State of Rajasthan is 9,15,300 plants. Broad potentials of other non-convetional energy sources estimated on country-wide basis are given in Statement-I (*See* belwo).

(c) The year-wise allocations made under various non-conventional energy programmes including solar energy during the current Plan period are given in Statement-II (*See* belwo).

(d) The status of non-conventional energy projects and devices installed in the States of Rajasthan and Orissa under various programmes of the Ministry upto February, 1997 is given in Statement-III

Statement-I

Potential of various types of New and Renewable Source of Energy (NRSE) and technologies in the country

Source/Technology	Approx. Potential Availability
Biogas Plants	12 Million Nos.
Improved Chulha	120 Million Nos.
Biomass/Bioenergy	17000 MW
Mini-Micro Hydel Power	10,000 MW
Wind Power	20,000 MW
Solar Energy	20 MW/KM^2

Statement-II

Year-wise allocations development of various non-conventional energy sources during the 8th Five Year Plan

Rs. in crores)

S.No.	Name of the Scheme/Project/Programme	1992-93 (Actuals)	1993-94 (Actuals)	1994-95 Actuals)	1995-96 (Actuals)	1996-97 (Revised Estimates)
1.	Biogas	58.77	81.56	82.68	50.71	54.00
2.	Improved Chulha	17.75	16.40	20.86	15.20	15.00
3.	Biomass	3.27	2.55	3.96	2.75	2.00
4.	Human & Animal Energy	0.06	0.09	0.55	0.90	0.05
5.	Integrated Rural Energy Programme	6.99	7.29	5.62	11.68	4.15
6.	Urjagram	0.38	0.18	0.02	0.06	0.25
7.	Special Demo Programme/ Renewable Energy Parks	1.09	0.56	0.59	1.49	1.00
8.	Solar Photovoltaic Lighting & Power Plants	11.42	13.92	15.17	17.46	13.50
9.	Solar Photovoltaic Pump Programme	—	27.16	6.99	13.00	10.25
10.	Solar Thermal	4.85	12.34	6.64	4.37	3.50
11.	Solar Energy Centre	1.40	2.16	2.90	1.29	1.50
12.	Solar Power	—	0.80	0.15	—	1.05
13.	Wind Energy	11.05	16.52	15.88	7.45	37.63 (3.51+34.12*)
14.	Small Hydro	7.18	18.01	20.93	25.86	10.00
15.	Bio-energy	0.66				
	(a) Energy from Urban/ industrial Wastes	—	1.59	3.52	1.68	1.55
	(b) Power from Biomass co-gen/combustion	—	1.95	4.20	0.90	3.60
	(c) Grid connected Gasifiers	—	—	—	0.48	0.50
16.	Alternate fuels	0.88	0.83	0.27	0.80	0.99
17.	Geo-thermal Energy	0.04	0.07	0.01	0.05	0.05
18.	Chemical Energy	0.33	0.11	0.68	1.00	0.80
19.	Hydrogen Energy	0.15	0.09	0.45	0.44	0.15

S.No.	Name of the Scheme/Project/Programme	1992-93 (Actuals)	1993-94 (Actuals)	1994-95 Actuals)	1995-96 (Actuals)	1996-97 (Revised Estimates)
20.	Ocean energy	—	—	0.10	—	0.01
21.	Planning/Evaluation/ monitoring	1.22	0.86	0.60	0.60	0.60
	(a) Regional Office	—	0.04	0.52	0.10	0.20
	(b) Data Bank	0.04	0.01	0.10	0.09	0.20
	(c) Seminar/Conference					
22.	Information & Publicity	0.88	0.72	1.97	2.90	3.00
23.	International Relation	1.09	0.06	0.17	0.04	0.75
24.	IREDA					28.00
	(a) Equity	4.00	6.20	14.15	24.00	87.24
	(b) Loan				51.49	
	TOTAL:	132.49	212.07	209.71	237.79	281.52

*Rs. 34.12 crores have been provided as supplymentary grant adjustment of Suspence accout (DANIDA assisted Wind Farm Project implemented during 7th Plan.

Statement-III

Details of non-conventional energy projects and devices in the States of Rajasthan and Orissa under various programmes of the Ministry upto February, 1997

S.No.	Name of System/Devices	Rajasthan	Orissa
1.	a. Family size Biogas plants (Nos.)	60,551*	1,22,661*
	b. CBP/IBP/NBP (Nos.)	47	32
2.	Improved Chulha (Nos.)	21,31,000*	12,14,000
3.	Biomass Gasifier (KW)	155	20
4.	IREP (No. of Blocks)	32	16
5.	Small Hydro Projects (MW)	4.3	1.26
6.	Solar Thermal Systems (collector area in m^2)	5169	2459
7.	Solar Cookers (Nos.)	33,964	2462
8.	SPV Lighting Systems (Nos.)		
	a. Solar Lanterns	4000	1967
	b. Street Lighting Systems	5545	2068
	c. Community Lights	115	58
	d. Domestic Lighting Systems	—	256
9.	Solar Photovoltiac Water Pumping (Nos.)	126	1
10.	SPV Power Plants/Packs (KW)	162.15	33.91

*Figures are upto January, 1997

CBP=Community Biogas Plants
IBP=Institutional Biogas Plants
NBP=Night-soil based Biogas Plants
IREP=Integrated Rural energy Programme
SPV=Solar Photovoltaic